

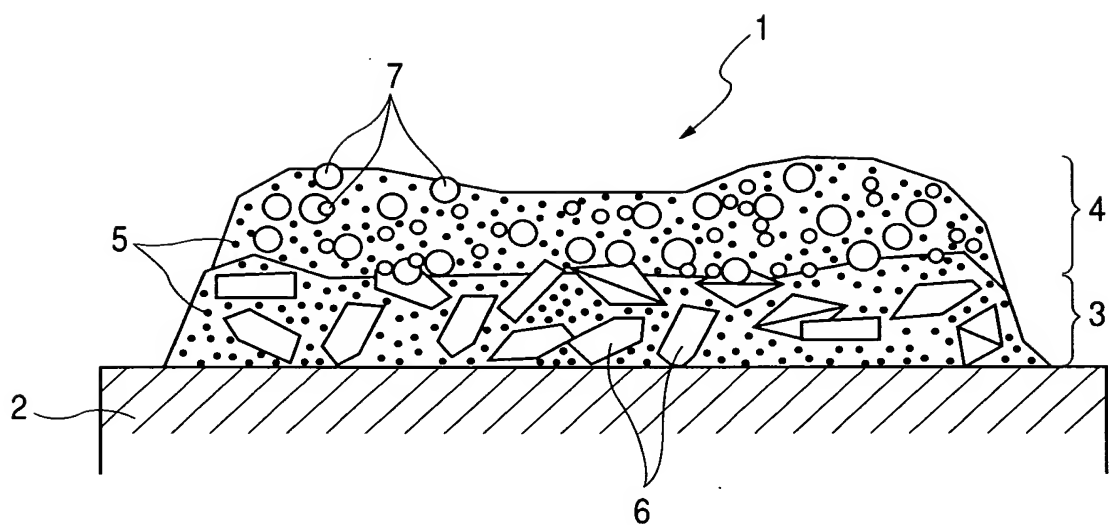
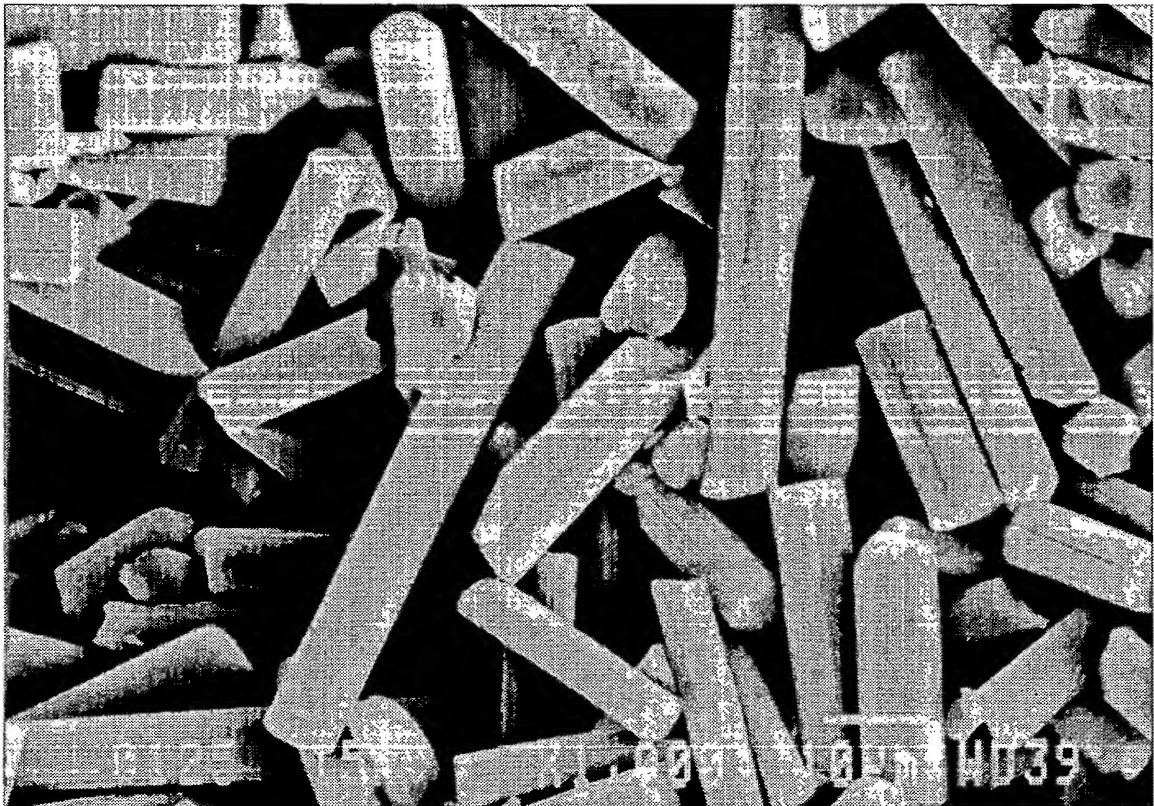
FIG. 1

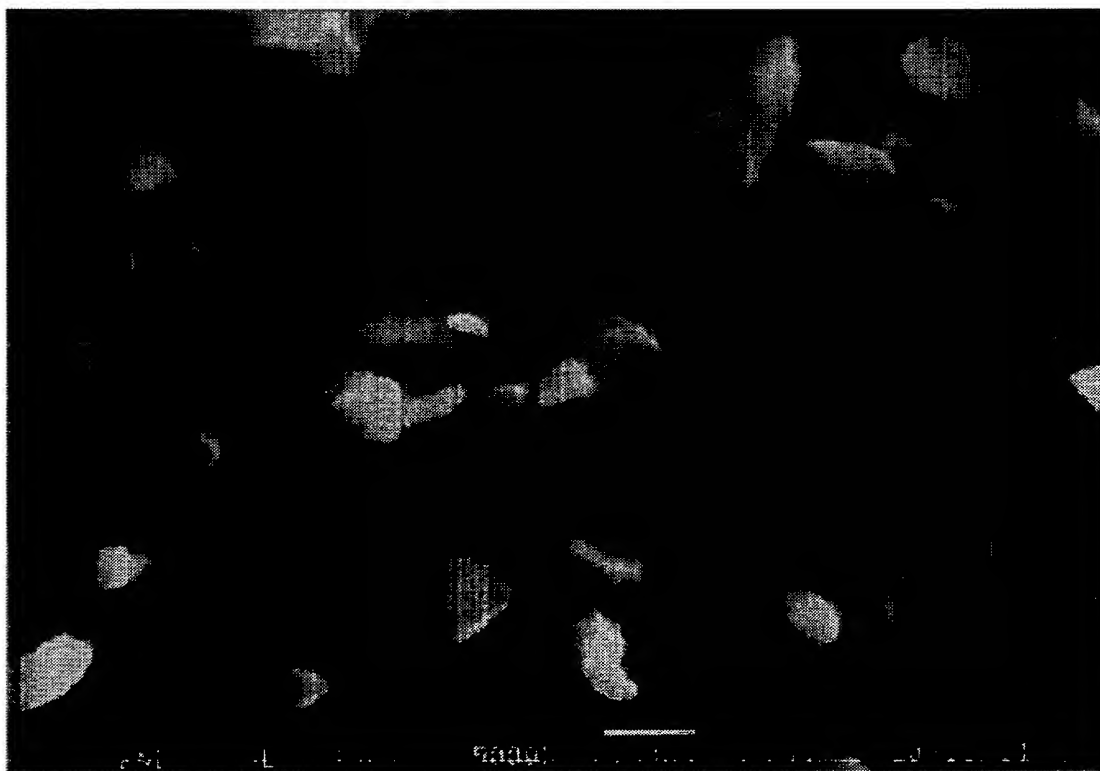
FIG. 2



CARBON FIBER

10 μ

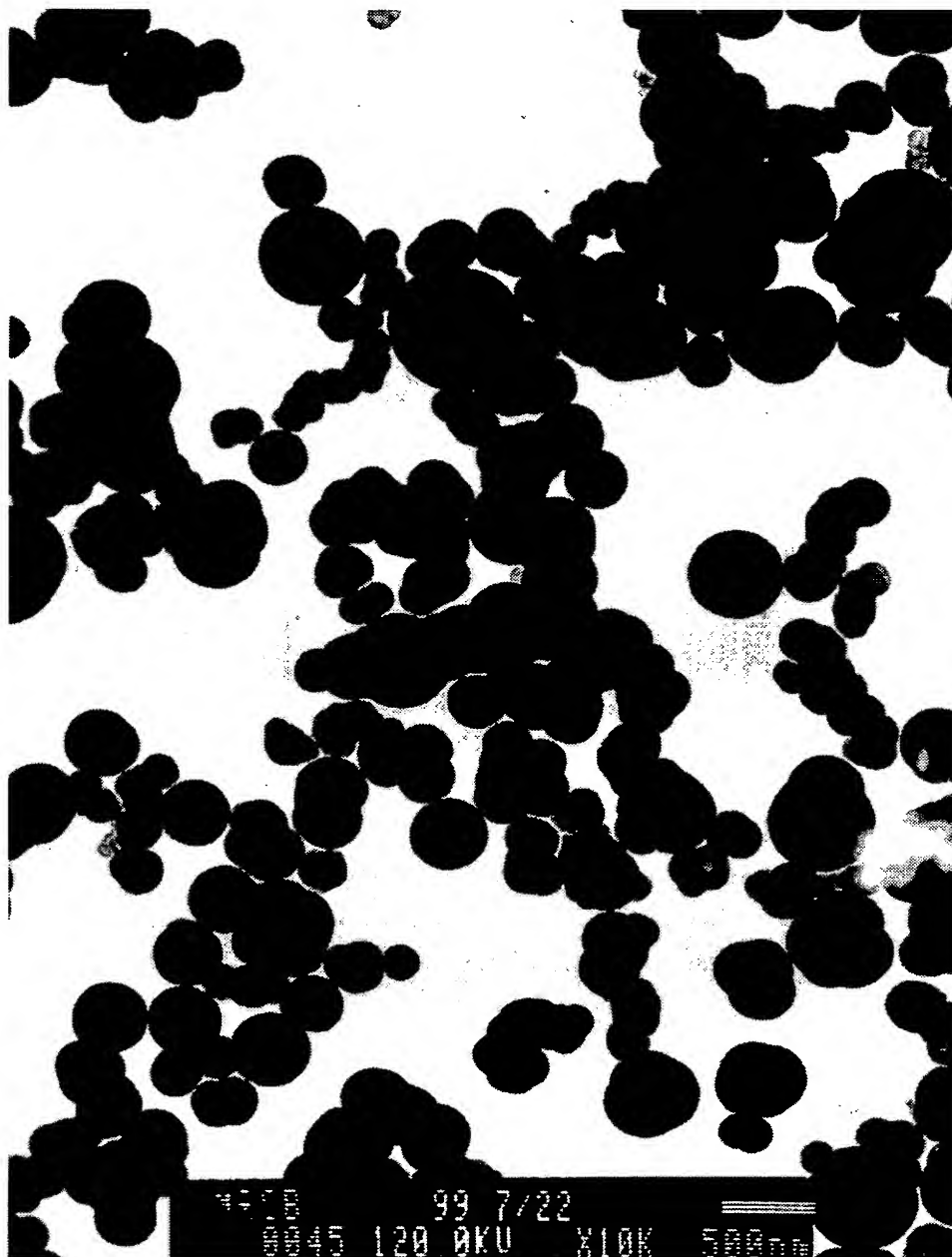
FIG. 3



PULVERIZED CARBON FIBER



FIG. 4



LARGE PARTICLE SIZE
CARBON BLACK
(THERMAL BLACK)

↔
0.5 μ

FIG. 5

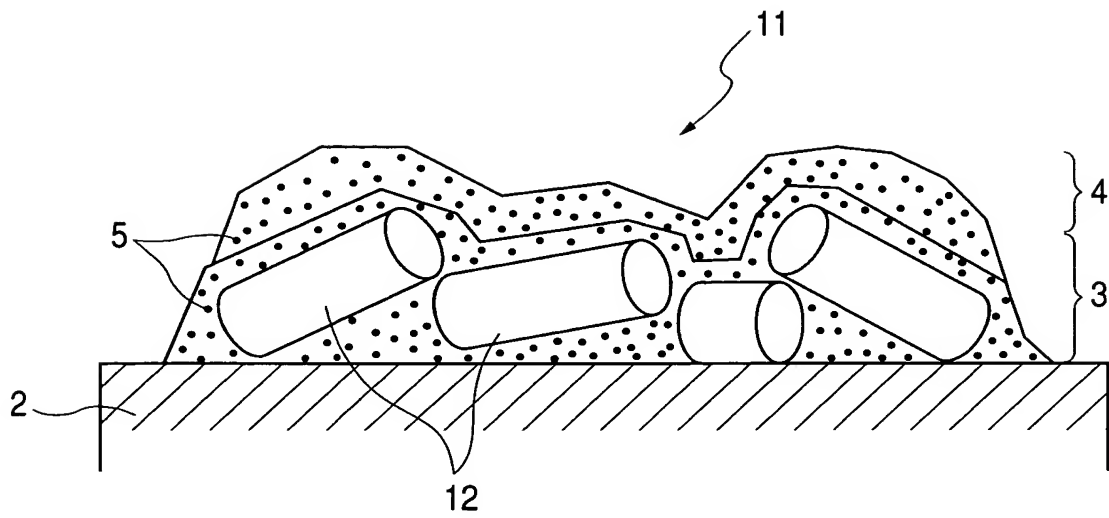


FIG. 6

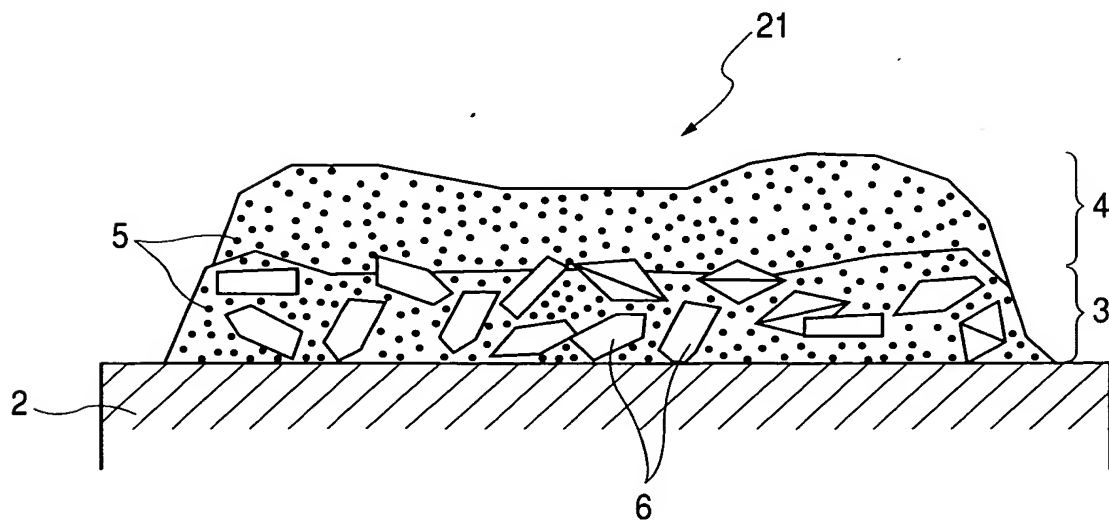


FIG. 7

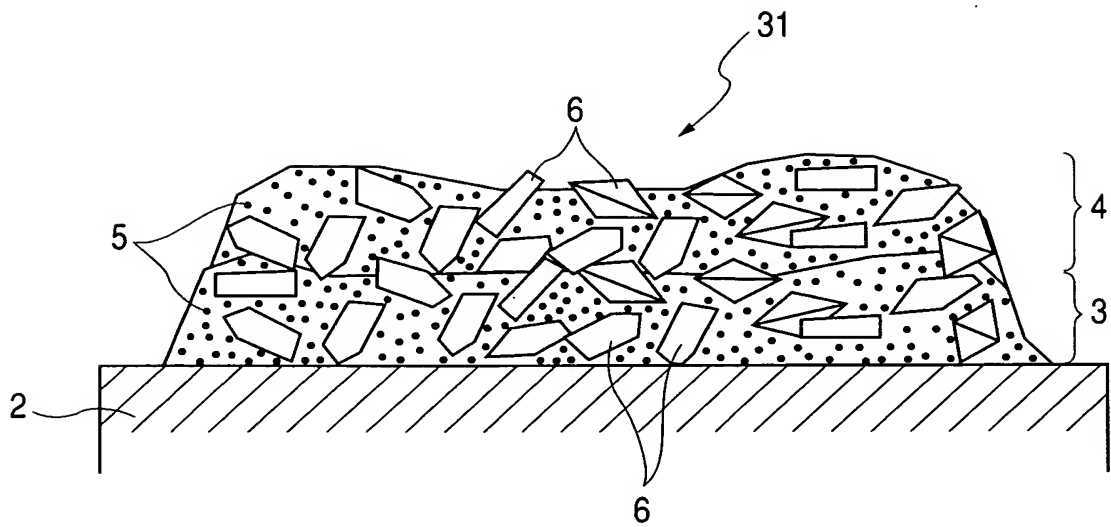


FIG. 8

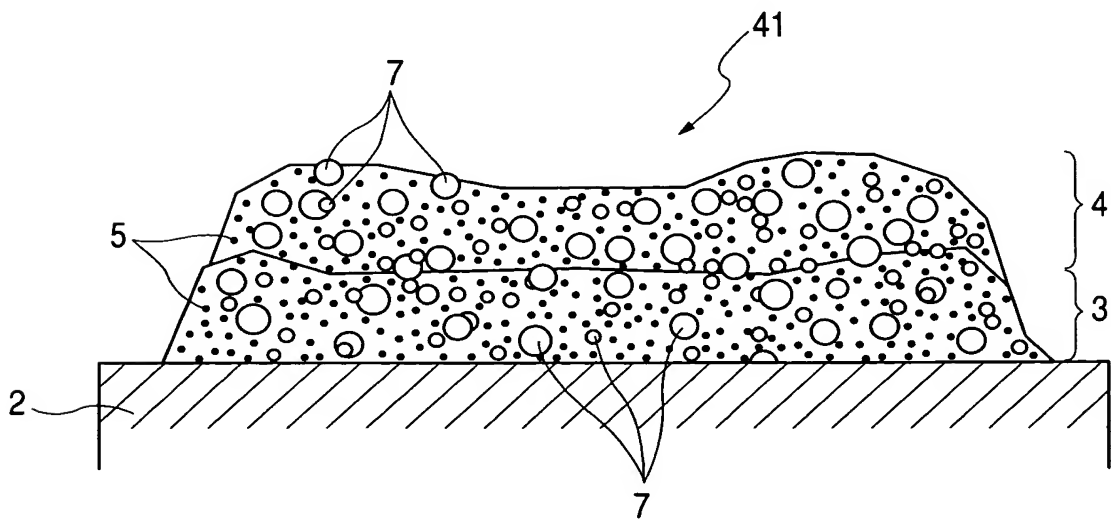


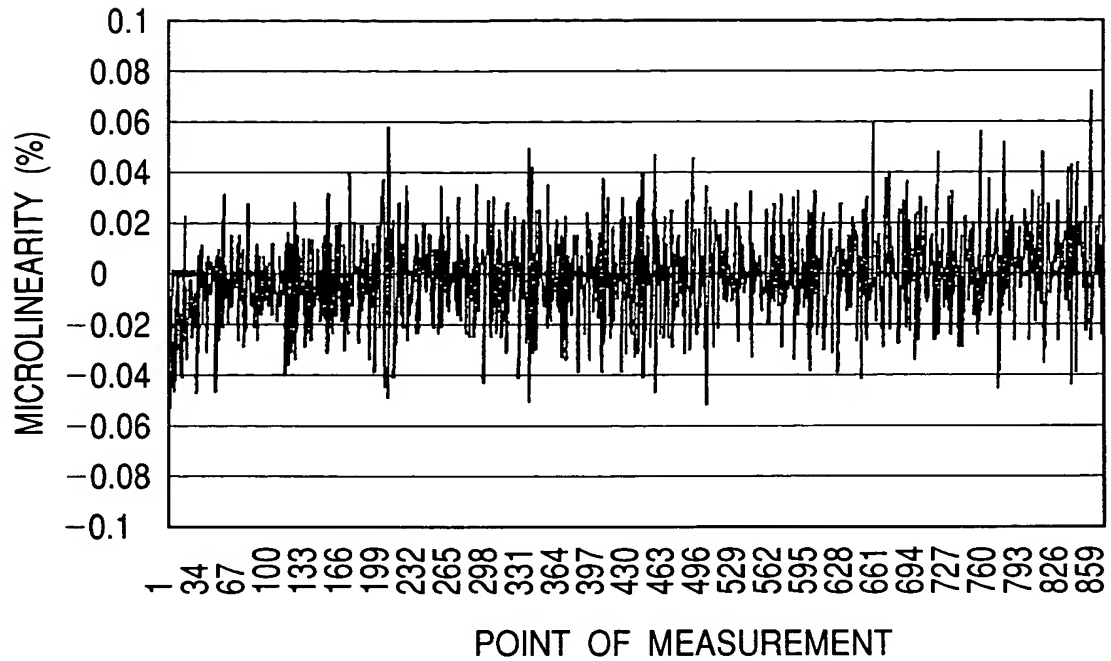
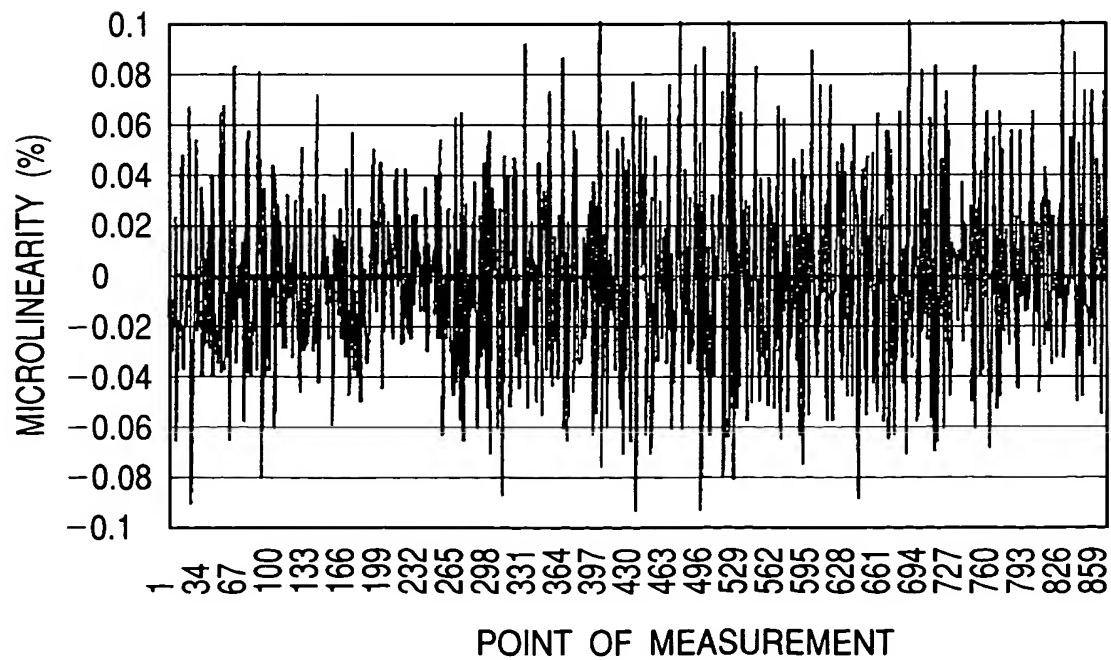
FIG. 9*FIG. 10*

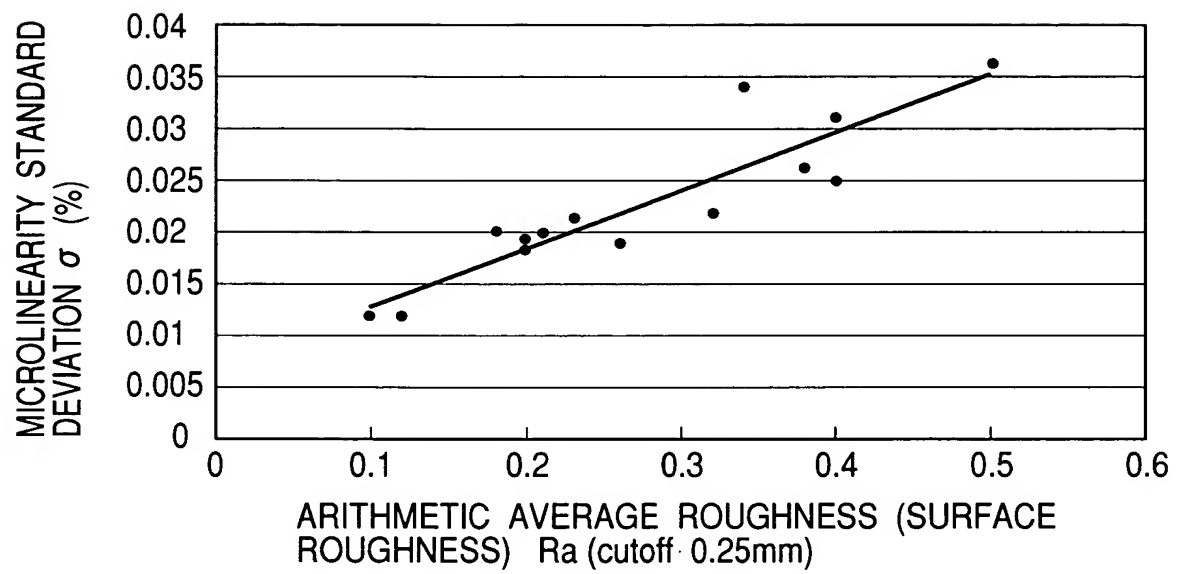
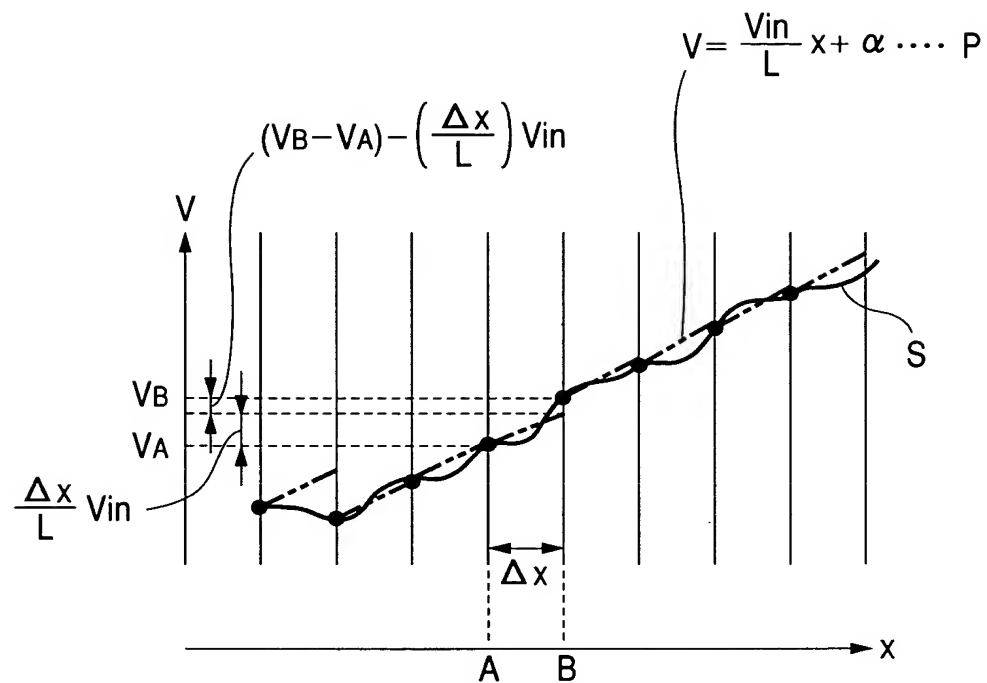
FIG. 11

FIG. 12

V_A : OUTPUT VALUE WHEN SLIDING CONTACT IS AT POINT A ON RESISTOR

V_B : OUTPUT VALUE WHEN SLIDING CONTACT IS AT POINT B ON RESISTOR

V_{in} : VOLTAGE APPLIED IN DIRECTION OF LENGTH L OF RESISTOR

Δx : DISTANCE BETWEEN POINTS A AND B

L : LENGTH OF RESISTOR

α : ARBITRARY SEGMENT

FIG. 13

